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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,840	07/23/2001	Hiroshi Iwamoto	10873.754USWO	1418

23552 7590 04/10/2003

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EXAMINER

PHINNEY, JASON R

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 04/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/889,840

Applicant(s)

IWAMOTO ET AL.

Examiner

Jason Phinney

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-4, 7 and 8 is/are rejected.
- 7) ☒ Claim(s) 1, 5, and 6 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 July 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 and 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. Figures 11-13 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claims 1 and 2 are objected to because of the following informalities: the fourth line of each claim recites "in an center" the Examiner believes that this should be replaced with "in a center." Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claim 4 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the internal magnetic shield of Claim 2, does not reasonably provide enablement for the claim that one of the at least two pairs of opposing cutting edges should be provided so that a width of the opposing cutting edges is increased from an electron gun side to a phosphor screen side. The specification does not enable any person skilled in the art to which it

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pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims. The specification discloses the relationship that one of the at least two pairs of opposing cutting edges should be provided so that a width of the opposing cutting edges is increased from a phosphor screen side to an electron gun side (See Applicant's Figure 10).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 2, 3, 4, 7, and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by U.S. Patent No. 5,773,924 to Nakamura.

Regarding Claim 2, Nakamura discloses an internal magnetic shield for a cathode ray tube that comprises a pair of opposing long side walls (Figure 5A, #'s 12 and 14), a pair of opposing short side walls ('s 11 and 13), an opening (See Figure 5A) enclosed by the side walls in the center of the shield, and wherein at least one pair of the long and short side walls are provided with notches formed by at least two pairs of opposing cutting edges with different orientations ('s 17, 18, 19, and 20).

Regarding Claim 3, Nakamura further discloses that one pair of the at least two pairs of opposing cutting edges should be parallel to each other (Figure 5A, #'s 17, 18, 19, and 20).

Regarding Claim 4, Nakamura further discloses that one pair of the opposing cutting edges is provided such that the width of the opposing cutting edges is increased from a phosphor screen side to an electron gun side (see Figure 5, #'s 17 and 18)

Regarding Claim 7, Nakamura further discloses that a straight cutting edge substantially parallel to a phosphor screen should be formed at the bottom of each of the notches (Figure 5A, #'s 17, 18, 19, and 20).

Regarding Claim 8, Nakamura further discloses a cathode ray tube with an envelope (Figure 1, #3) having a front panel (#1) and a funnel (#2), a phosphor screen (#4) formed on an inner surface of the front panel, a color selection electrode (#5) arranged to face the phosphor screen, an electron gun (#6) placed in the funnel, and the internal magnetic shield (#8) of Claim 2 placed between the color selection electrode and the electron gun.

Allowable Subject Matter

7. Claim 1 would be allowable if rewritten or amended to overcome the objection due to minor informalities set forth in this Office action.

8. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record and relied upon fails to show or suggest an internal magnetic shield for a cathode ray tube with a pair of opposing long side walls, a pair of opposing short side walls, an opening enclosed by the side walls in a center, wherein at least on pair of the long and short side walls are provided with notches having a home-plate shape. A magnetic shield according to the instant invention better reduces the electron beam mislanding throughout the screen.

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9. Claims 5 and 6 are objected to as being dependent upon an objected base claim, but would be allowable if Claim 1 was rewritten to overcome the objection to minor informalities set forth in this Office Action.

10. The following is a statement of reasons for the indication of allowable subject matter: Claims 5 and 6 depend from claim 1 and as such would be allowable for the reasons cited above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Phinney whose telephone number is (703) 305-3999. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (703) 305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JP

April 4, 2003


ASHOK PATEL
PRIMARY EXAMINER